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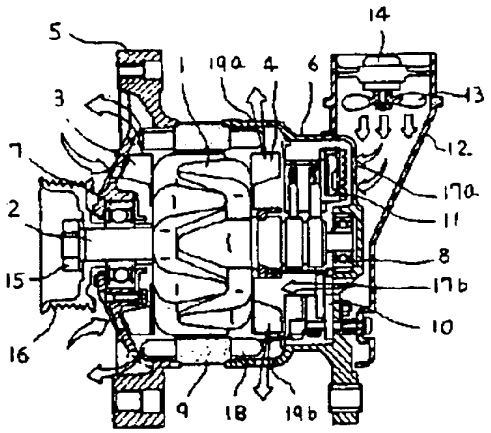
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APPLICANT : HITACHI LTD;

INVENTOR : CHIBA MICHIHARU;

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TITLE : ALTERNATOR FOR VEHICLE




ABSTRACT : PURPOSE: To cool an alternator for vehicle effectively by taking in the air having relatively low temperature, close to that of the outer air, forcibly through a fan to be rotated by means of a motor disposed in a duct.

CONSTITUTION: A rotor 1 is secured to a rotor shaft 2, and front and rear cooling fans 3, 4 are secured, respectively, to the opposite end faces of the rotor 1. The rotor shaft 2 is supported by bearings 7, 8 held in a front housing 6. A stator 9 is held between a front housing 5 and a rear housing 6. A motor 14 for driving a cooling fan 13 is fixed to the inside of a duct cover 12. Cooling air sucked through rear inlets 17a, 17b cools a commutator 10 and the like and then cools a stator winding 18 and discharged through rear delivery ports 19a, 19b.

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